

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 12 BEILSTEIN enhanced with new display and select options,  
resulting in a closer connection to BABS  
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 5 AUG 02 CAPLUS and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN  
NEWS 14 OCT 28 KOREAPAT now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 07:24:52 ON 10 NOV 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 07:25:39 ON 10 NOV 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9  
DICTIONARY FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.94	3.15

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 07:29:37 ON 10 NOV 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

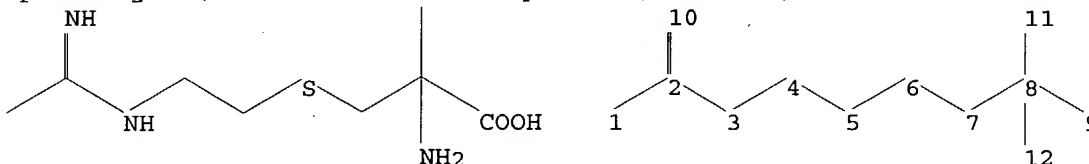
PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 07:31:58 ON 10 NOV 2004  
FILE 'REGISTRY' ENTERED AT 07:31:58 ON 10 NOV 2004  
COPYRIGHT (C) 2004 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.94	3.15

=>

Uploading C:\Examination Auxillary files\10815375\10815375 core structure.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-2 2-3 2-10 3-4 4-5 5-6 6-7 7-8 8-9 8-11 8-12

exact/norm bonds :

2-3 2-10 3-4 5-6 6-7 8-12

exact bonds :  
1-2 4-5 7-8 8-9 8-11

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS

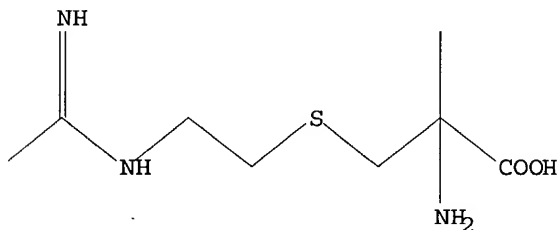
L1 STRUCTURE UPLOADED

=> d l;1  
L1 HAS NO ANSWERS  
'L ' IS NOT A VALID STRUCTURE FORMAT KEYWORD  
Structure Formats  
SIA ----- Structure Image, Attributes, and map table if it contains  
data. (Default)  
SIM ----- Structure IMage.  
SAT ----- Structure ATtributes and map table if it contains data.  
SCT ----- Structure Connection Table and map table if it contains  
data.  
SDA ----- All Structure Data (image, attributes, connection table and  
map table if it contains data).  
NOS ----- NO Structure data.  
ENTER STRUCTURE FORMAT (SIM), NOS:end

SYSTEM LIMITS EXCEEDED - SEARCH ENDED

The search profile you entered was too complex or gave too many  
answers. Simplify or subdivide the query and try again. If you have  
exceeded the answer limit, enter DELETE HISTORY at an arrow prompt  
(=>) to remove all previous answers sets and begin at L1. Use the  
SAVE command to store any important profiles or answer sets before  
using DELETE HISTORY.

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam  
SAMPLE SEARCH INITIATED 07:32:43 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 33 TO 447  
PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> d scan

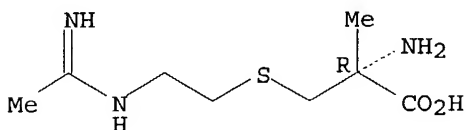
L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, carbonate (1:1)  
(9CI)

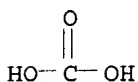
MF C8 H17 N3 O2 S . C H2 O3

CM 1

Absolute stereochemistry.



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

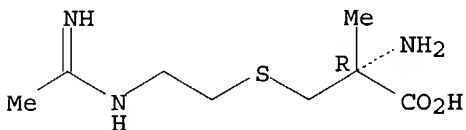
L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,  
2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI)

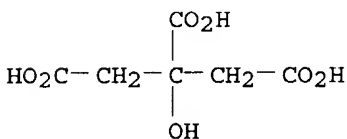
MF C8 H17 N3 O2 S . C6 H8 O7

CM 1

Absolute stereochemistry.



CM 2



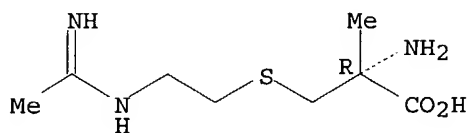
L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,  
(2S,3S)-2,3-dihydroxybutanedioate (1:1) (9CI)

MF C8 H17 N3 O2 S . C4 H6 O6

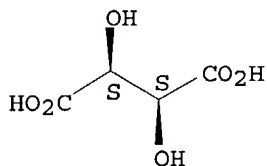
CM 1

Absolute stereochemistry.



CM 2

Absolute stereochemistry.

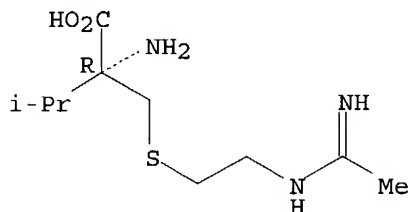


L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN D-Isovaline, 2'-[[2-[(1-iminoethyl)amino]ethyl]thio]-3-methyl-, dihydrochloride (9CI)

MF C10 H21 N3 O2 S . 2 Cl H

Absolute stereochemistry.



●2 HCl

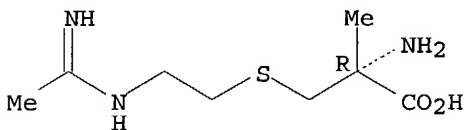
L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, compd. with L-ascorbic acid (1:1) (9CI)

MF C8 H17 N3 O2 S . C6 H8 O6

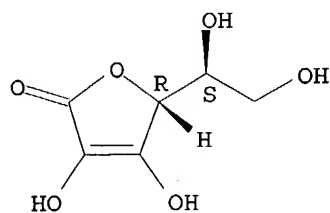
CM 1

Absolute stereochemistry.



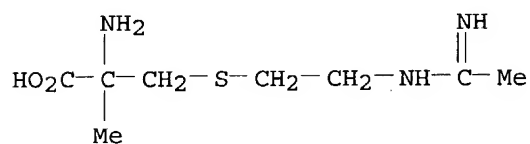
CM 2

Absolute stereochemistry.

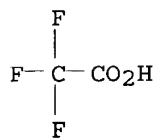


L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,  
bis(trifluoroacetate) (9CI)  
MF C8 H17 N3 O2 S . 2 C2 H F3 O2

CM 1



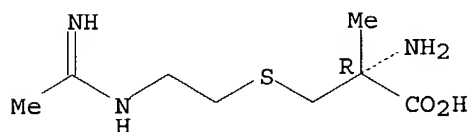
CM 2



L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,  
(2R)-hydroxybutanedioate (20:11) (9CI)  
MF C8 H17 N3 O2 S . 11/20 C4 H6 O5

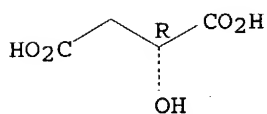
CM 1

Absolute stereochemistry.



CM 2

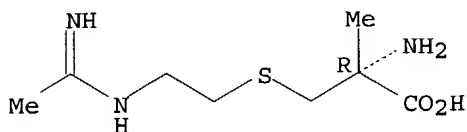
Absolute stereochemistry.



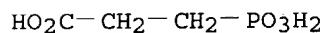
L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,  
 mono(3-phosphonopropanoate) (9CI)  
 MF C8 H17 N3 O2 S . C3 H7 O5 P

CM 1

Absolute stereochemistry.



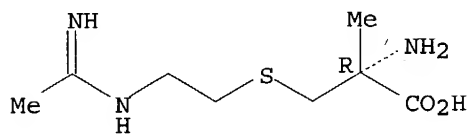
CM 2



L2 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, monohydrochloride  
 mono[(2S)-2-hydroxypropanoate] (9CI)  
 MF C8 H17 N3 O2 S . C3 H6 O3 . Cl H

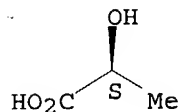
CM 1

Absolute stereochemistry.



CM 2

Absolute stereochemistry. Rotation (+).



ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full  
 FULL SEARCH INITIATED 07:34:17 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS  
SEARCH TIME: 00.00.01

164 ANSWERS

L3 164 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

159.62

159.83

FILE 'CAPLUS' ENTERED AT 07:34:26 ON 10 NOV 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 10 Nov 2004 VOL 141 ISS 20

FILE LAST UPDATED: 8 Nov 2004 (20041108/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l3

L4 15 L3

=> d l4 1-15 ti

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Exchanger for selectively removing counterions from compounds and compounds derived from the methods for pharmaceutical applications

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-cysteine maleate hydrochloride crystalline salt

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-cysteine maleate form II crystalline salt

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-cysteine maleate form II crystalline salt

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-cysteine salicylate monohydrate crystalline salt

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Solid dispersions comprising a hygroscopic and/or deliquescent drug

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Non-hygroscopic formulation comprising a hygroscopic drug



L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of 2,7-diamino-5-heptenoic acid derivatives for the treatment and prevention of gastrointestinal conditions

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amino acid derivatives and methods for the treatment of respiratory diseases and conditions using a selective inos inhibitor

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amino acid derivatives in methods for the treatment of respiratory diseases and conditions with a selective iNOS inhibitor and a PDE inhibitor

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amino acid derivatives as selective nitric oxide synthase inhibitors for ophthalmol. treatment

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amino acid derivatives as selective nitric oxide synthase inhibitors for neuroprotective treatment

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of 2,7-diamino-5-heptenoic acid derivatives for the treatment of cancer

L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors

L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors

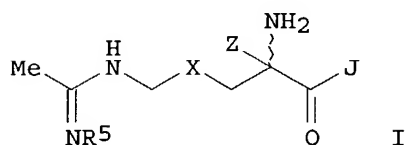
=> d l4 12-15 ti fbib abs

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of amino acid derivatives as selective nitric oxide synthase inhibitors for neuroprotective treatment  
 AN 2003:261658 CAPLUS  
 DN 138:287965  
 TI Preparation of amino acid derivatives as selective nitric oxide synthase inhibitors for neuroprotective treatment  
 IN Manning, Pamela T.; Connor, Jane R.  
 PA Pharmacia Corporation, USA  
 SO PCT Int. Appl., 185 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003026638	A1	20030403	WO 2002-US30214	20020924
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				US 2001-961521	A 20010924
	US 2003119826	A1	20030626	US 2001-961521	20010924

EP 1429752 A1 20040623 EP 2002-761804 20020924  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2001-961521 A 20010924  
 WO 2002-US30214 W 20020924

OS MARPAT 138:287965  
 GI



AB The acetamidino amino acid derivs. I [R5 = H, or OH; X = CR1:CR2CH2, CR1:CR2, CH2CR1:CR2, C.tplbond.C, CH2C.tplbond.C, C.tplbond.CCH2; R1, R2 = H, halo, alkyl, or haloalkyl; with the proviso that at least one of R1 or R2 contains halo; Z = H, (un)substituted alkyl, alkoxy, or halo; J = H, OH, alkoxy, NR3R4; R3 = H, alkyl, alkenyl, alkynyl; R4 = H, or (un)substituted heterocyclyl] and related 7-iminoheptahydro-2-azepinyl derivs. were prepared as selective nitric oxide synthase inhibitors for the prevention and treatment of neurodegenerative conditions. Thus, (2S,5E)-2-amino-6-fluoro-7-[(1-iminoethyl)amino]-5-heptenoic acid dihydrochloride prepared by a multistep procedure starting from L-glutamic acid inhibited the LPS-induced increase in plasma nitrite/nitrate levels with an observed ED50 value of <0.1 mg/kg demonstrating the ability to inhibit inducible nitric oxide synthase activity in vivo.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Preparation of 2,7-diamino-5-heptenoic acid derivatives for the treatment of cancer  
 AN 2002:754159 CAPLUS  
 DN 137:263297  
 TI Preparation of 2,7-diamino-5-heptenoic acid derivatives for the treatment of cancer  
 IN Manning, Pamela T.; Connor, Jane R.; Seibert, Karen; Rao, Chinthalapally V.; Reddy, Bandaru S.  
 PA Pharmacia Corporation, USA  
 SO PCT Int. Appl., 295 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076395	A2	20021003	WO 2002-US8938	20020321
WO 2002076395	A3	20040812		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			US 2001-278512P	P 20010323
			US 2001-961969	A 20010924
US 2003013702	A1	20030116	US 2001-961969	20010924

US 2001-278512P P 20010323  
 EP 1463495 A2 20041006 EP 2002-717708 20020321  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2001-278512P P 20010323  
 US 2001-961969 A 20010924  
 WO 2002-US8938 W 20020321

OS MARPAT 137:263297

AB Agents and methods for chemoprevention and treatment of neoplasia are described, the agents including a selective inhibitor of inducible nitric oxide synthase and a combination of a selective inhibitor of inducible nitric oxide synthase and an inhibitor of cyclooxygenase-2 in a pharmaceutical composition 2,7-Diamino-5-heptenoic acid derivs. R7N:CMNHCH2CR1:CR2CH2CH2CH(NH2)C(O)J [R1, R2 = H, halo, alkyl, haloalkyl (at least one of R1 or R2 contains halogen); R7 = H, OH; J = OH, alkoxy, NR3R4, where R3 = H, alkyl, alkenyl, alkynyl and R4 = H, (un)substituted heterocyclyl] or their pharmaceutically-acceptable salts are among the compds. claimed. Thus, (2S,5E)-2-amino-6-fluoro-7-[(1-iminoethyl)amino]-5-heptenoic acid dihydrochloride was prepared by a multistep procedure starting from L-glutamic acid and showed IC50 values 0.36, 68, 3.6, and 0.1 µM in hiNOS, hecNOS, hcnNOS, and human cartilage assays, resp.

L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors

AN 2001:730698 CAPLUS

DN 135:289056

TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors

IN Webber, Ronald Keith; Awasthi, Alok K.; Bergmanis, Arijia A.; Durley, Richard C.; Ganser, Scott S.; Hagen, Timothy J.; Hallinan, Ann E.; Hansen, Donald W.; Hickory, Brian S.; Moormann, Alan E.; Pitzele, Barnett S.; Promo, Michelle A.; Schartman, Richard R.; Snyder, Jeffrey S.; Trivedi, Mahima; Tsybalov, Sofya

PA Pharmacia Corporation, USA

SO PCT Int. Appl., 144 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2001072703	A1	20011004	WO 2001-US9433	20010323	
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	US 6586474	B2	20030701			
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			WO 2001-US9433	W	20010323
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			US 2000-191923P	P	20000324
			US 2001-816575	A3	20010323
			US 2002-321969	B3	20021217

PATENT FAMILY INFORMATION:

FAN 2001:730697

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072702	A2	20011004	WO 2001-US9431	20010323
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	US 2002111493	A1	20020815	US 2000-191923P	P 20000324
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			US 2001-816575	A3	20010323
			US 2002-321969	B3	20021217

OS MARPAT 135:289056

AB The invention relates to S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-

cysteine (1) or its pharmaceutically acceptable salts for use as nitric oxide synthase (NOS) inhibitors. Thus, 1.2HCl was prepared by a multistep procedure involving S-alkylation of (2R)-2-methyl-L-cysteine hydrochloride with Boc-NHCH<sub>2</sub>CH<sub>2</sub>Br (Boc = tert-butoxycarbonyl), deprotection, condensation with Et acetimidate hydrochloride, and acidolysis with 1 N HCl. (2R)-2-methyl-L-cysteine hydrochloride was obtained from (R)-cysteine Me ester hydrochloride. Inhibitory assays for compound 1.2HCl showed hNOS, hecNOS, hncNOS, and human cartilage IC<sub>50</sub> values 3.1, 77, 15  $\mu$ M, and 0.7  $\mu$ M, resp.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors  
AN 2001:730697. CAPLUS  
DN 135:273215  
TI Preparation of amidino compounds useful as nitric oxide synthase inhibitors  
IN Webber, Ronald Keith; Awasthi, Alok K.; Bergmanis, Arija A.; Durley, Richard C.; Fok, Kam F.; Ganser, Scott S.; Hagen, Timothy J.; Hallinan, Ann E.; Hansen, Donald W.; Hickory, Brian S.; Manning, Pamela T.; Mao, Michael; Moormann, Alan E.; Pitzele, Barnett S.; Promo, Michelle A.; Schartman, Richard R.; Scholten, Jeffrey A.; Snyder, Jeffrey S.; Toth, Mihaly V.; Trivedi, Mahima; Tsymbalov, Sofya; Tjoeng, Foe Siong  
PA Pharmacia Corporation, USA  
SO PCT Int. Appl., 159 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

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PATENT FAMILY INFORMATION:

FAN 2001:730698

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				US 2001-816575	A3 20010323
				US 2002-321969	B3 20021217

OS MARPAT 135:273215

AB Amidino compds. R11N:CR13NR12CR9R10CR1R7-X-CR5R6CR2(NR3R4)COR8 [X = S, SO, SO<sub>2</sub>; R1, R5, R6, R7 = H, halo, alkyl (alkyl and other groups may be substituted), alkenyl, alkynyl, alkoxyalkyl; R2 = alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl; R3 = H, OH, CHO, alkanoyl, CO<sub>2</sub>H, C(O)SH or alkyl esters; R8 = OH, alkoxy, an amino or alkylamino group or R3 and R8 may form a ring; R4 = H, CO<sub>2</sub>H, carbalkoxy; R9, R10 = H, alkyl, alkenyl, alkynyl, alkoxyalkyl; R11, R12 = H, OH, CO<sub>2</sub>H, C(O)SH or esters or R11 and R12 may form a ring; R13 = alkyl (with provisos)] or their salts were prepared as nitric oxide synthase (NOS) inhibitors. Thus, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-cysteine dihydrochloride (1)

was prepared by a multistep procedure involving S-alkylation of (2R)-2-methyl-L-cysteine hydrochloride with Boc-NHCH<sub>2</sub>CH<sub>2</sub>Br (Boc = tert-butoxycarbonyl), deprotection, condensation with Et acetimidate hydrochloride, and acidolysis with 1 N HCl. (2R)-2-methyl-L-cysteine hydrochloride was obtained from (R)-cysteine Me ester hydrochloride. Inhibitory assays for compound 1 showed hiNOS, hecNOS, hncNOS, and human cartilage IC<sub>50</sub> values 3.1, 77, 15  $\mu$ M, and 0.7  $\mu$ M, resp.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:35:50 ON 10 NOV 2004

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L3	10811	nitric adj oxide	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 07:56
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L9	136	560/149.ccls.	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 07:56
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L76	241	562/557.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/10 07:56
L77	5	"6586474"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/10 07:56
L78	2	"6586474".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/10 07:56
L79	13	US-5132453-\$.DID. OR US-5684008-\$. DID. OR US-5830917-\$.DID. OR US-5854251-\$.DID. OR US-5863931-\$. DID. OR US-5919787-\$.DID. OR US-5945408-\$.DID. OR US-5981511-\$. DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/10 08:35

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	311636	beams	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
2	BRS	L2	11	nitric adj oxide	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
3	BRS	L3	10811	nitric adj oxide	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
4	BRS	L4	6072	amidino	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
5	BRS	L5	151	amidino and (nitric adj oxide)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
6	BRS	L6	138	548/316.7	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
7	BRS	L7	259	560/153.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
8	BRS	L8	432	560/147.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	

9	BRS	L9	136	560/149.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
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	Error Definition	Errors
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10	BRS	L10	911	548/316.7 or 560/153.ccls. or 560/147.ccls. or 560/149.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
11	BRS	L11	30345	cysteine	USPAT	2004/11/10 07:56	
12	BRS	L12	0	"9962875".pn.	USPAT	2004/11/10 07:56	
13	BRS	L13	0	"9962875".pn.	USPAT	2004/11/10 07:56	
14	BRS	L37	248	564/197.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
15	BRS	L38	843	514/562.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
16	BRS	L39	311636	beams	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
17	BRS	L40	11	nitic adj oxide	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
18	BRS	L41	10811	nitric adj oxide	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
19	BRS	L42	6072	amidino	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	

20	BRS	L43	151	amidino and (nitric adj oxide)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
21	BRS	L44	138	548/316.7	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
22	BRS	L45	259	560/153.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
23	BRS	L46	432	560/147.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
24	BRS	L47	136	560/149.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
25	BRS	L48	911	548/316.7 or 560/153.ccls. or 560/147.ccls. or 560/149.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
26	BRS	L49	30345	cysteine	USPAT	2004/11/10 07:56	
27	BRS	L50	0	"9962875".pn.	USPAT	2004/11/10 07:56	
28	BRS	L51	0	"9962875".pn.	USPAT	2004/11/10 07:56	
29	BRS	L52	248	564/197.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
30	BRS	L53	843	514/562.ccls.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
31	BRS	L18	1	"5863931".PN.	USPAT	2004/11/10 07:56	
32	BRS	L19	1	"5684008".PN.	USPAT	2004/11/10 07:56	

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33	BRS	L21	1	"9324126".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
34	BRS	L23	1	"5854234".pn.	USPAT	2004/11/10 07:56	
35	BRS	L25	1	"6046211" .pn.	USPAT	2004/11/10 07:56	
36	BRS	L26	1	"5674894".pn.	USPAT	2004/11/10 07:56	
37	BRS	L32	1	"5863931".PN.	USPAT	2004/11/10 07:56	
38	BRS	L33	1	"5889056".PN.	USPAT	2004/11/10 07:56	
39	BRS	L34	1	"2049582".PN.	USPAT	2004/11/10 07:56	
40	BRS	L35	1	"4085217".PN.	USPAT	2004/11/10 07:56	
41	BRS	L54	1	"5863931".PN.	USPAT	2004/11/10 07:56	
42	BRS	L55	1	"5684008".PN.	USPAT	2004/11/10 07:56	
43	BRS	L56	1	"9324126".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
44	BRS	L57	1	"5854234".pn.	USPAT	2004/11/10 07:56	
45	BRS	L58	1	"6046211" .pn.	USPAT	2004/11/10 07:56	
46	BRS	L59	1	"5674894".pn.	USPAT	2004/11/10 07:56	
47	BRS	L60	1	"5863931".PN.	USPAT	2004/11/10 07:56	
48	BRS	L61	1	"5889056".PN.	USPAT	2004/11/10 07:56	
49	BRS	L62	1	"2049582".PN.	USPAT	2004/11/10 07:56	
50	BRS	L63	1	"4085217".PN.	USPAT	2004/11/10 07:56	

51	IS&R	L14	2	("6403830").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
52	IS&R	L15	2	("6355689").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
53	BRS	L16	2	"9313055".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
54	BRS	L20	3	"9525717".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
55	BRS	L22	39	(amidino and (nitric adj oxide)) and cysteine	USPAT	2004/11/10 07:56	
56	BRS	L24	12	(nitric adj oxide) and (548/316.7 or 560/153.ccls. or 560/147.ccls. or 560/149.ccls.)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
57	BRS	L27	3	"9962875".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
58	IS&R	L28	2	("6355689").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	

59	IS&R	L29	2	("6403830").PN.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
60	BRS	L30	3	"2000044731".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
61	BRS	L31	9	(nitric adj oxide) and 562/557.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
62	IS&R	L64	2	("6403830").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
63	IS&R	L65	2	("6355689").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
64	BRS	L66	2	"9313055".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
65	BRS	L67	3	"9525717".pn.	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
66	BRS	L68	39	(amidino and (nitric adj oxide)) and cysteine	USPAT	2004/11/10 07:56	
67	BRS	L69	12	(nitric adj oxide) and (548/316.7 or 560/153.ccls. or 560/147.ccls. or 560/149.ccls.)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	

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68	BRS	L70	3	"9962875".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
69	IS&R	L71	2	("6355689").PN.	USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
70	IS&R	L72	2	("6403830").PN.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T	2004/11/10 07:56	
71	BRS	L73	3	"2000044731".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
72	BRS	L74	9	(nitric adj oxide) and 562/557.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
73	BRS	L77	5	"6586474"	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
74	BRS	L78	2	"6586474".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
75	BRS	L17	186	beams and (nitric adj oxide)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
76	BRS	L75	186	beams and (nitric adj oxide)	USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
77	BRS	L36	241	562/557.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
78	BRS	L76	241	562/557.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 07:56	
79	BRS	L79	13	US-5132453-\$.DID. OR US- 5684008-\$.DID. OR US- 5830917-\$.DID. OR US- 5854251-\$.DID. OR US- 5863931-\$.DID. OR US- 5919787-\$.DID. OR US- 5945408-\$.DID. OR US- 5981511-\$.DID.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2004/11/10 08:35	

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